

Fig. 1

RECEIVED  
 APR 22 2003  
 OIPE

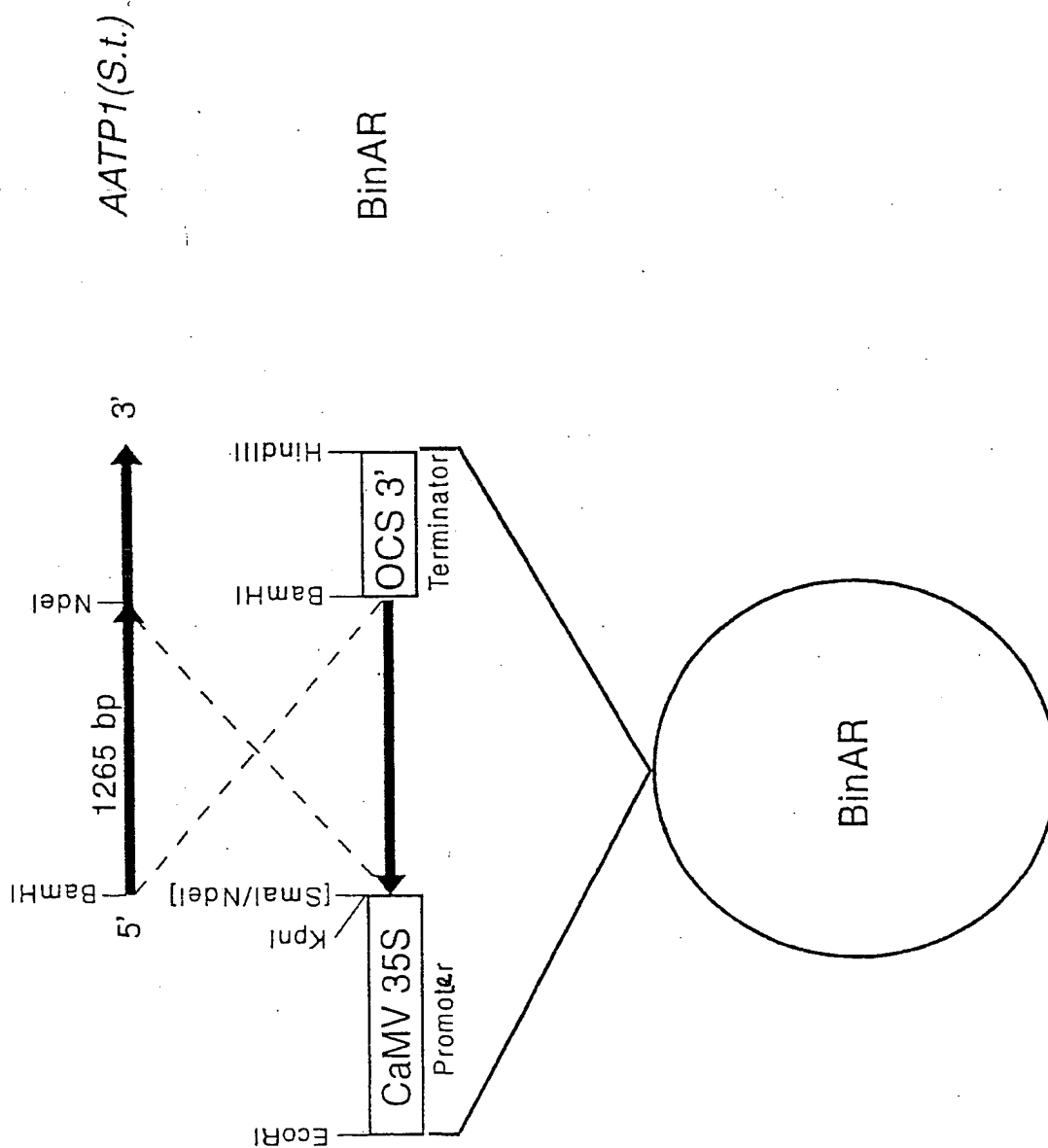
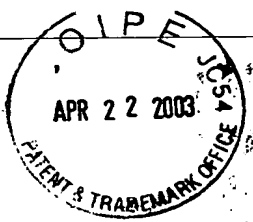


Fig. 2



DC Alignment:

3/8

- 1 AATP1\_A.T.\_
- 2 AATP2\_A.t.\_
- 3 TLC\_

10 20 30 40 50 60  
1 MEAVIQTRGLLSLPTKPIGVRSQQLQPSHGLKQRLFAAKPRNLHGCLYPLTGTRNFKPLSQ 60  
2 MEGLIQTRGILSLPASHR-SEKVLQPSHGLKQRLFTTN--LPALSLSLMVTRNFKPFSK 56  
3 -----MS-----TSK-----SENY--LS- 11

70 80 90 100 110 120  
1 PCMGFRFPTKREAPSSYARRRRGCWRRSCLRRSDSAAVVASRKIFGVEVATLKKIPLGL 120  
2 SHLGFRFPTRREAEDSLARRKLRPRRKCVDEGDTAAMAVSPKIFGVEVTTLKKIVPLGL 116  
3 -----EL-----RKIIWP-----IEQYENKKFLPLAF 33

130 140 150 160 170 180  
1 MFFCILFNITLRDVKDVLVVTAKGSSAEIIFLKTWVNLPMAGFMILLYTKLSNVLSKK 180  
2 MFFCILFNITLRDVKDVLVVTAKGSSAEIIFLKTWVNLPMAGFMILLYTKLSNVLSKK 176  
3 MMFCILLNYSTLRSIKDGFVVDIG-T-ESISFLKTYIVLPSAVIAMIIYVKLCDILKQE 91

190 200 210 220 230 240  
1 ALFYTVIVPFITYFGGFGFVMYPLSNYHPEALADKLLTTLGPRFMGPAILRIWSFCLF 240  
2 ALFYTVIVPFIVYFGAFGFVMYPRSNLIQPEALADKLLATLGPFRMGPLAIMRIWSFCLF 236  
3 NVFYVITSFFLGYFALFAFVLYPYDLPVHPDHKTIESLSLAYPNFKWFKIVGKWSFASF 151

250 260 270 280 290 300  
1 YVMAELWGSVVSVLFWGFANQITTVDEAKKFYPLFGIGANVALIFSGRTVKYFSNLRKN 300  
2 YVMAELWGSVVSVLFWGFANQITTVDEAKKFYPLFGLGANVALIFSGRTVKYFSNMRKN 296  
3 YTIAELWGTMMMLSLFWQFANQITKIAEAKRFYSMFGLLANLALPVTSVVIGYFLHEKTQ 211

310 320 330 340 350 360  
1 LGPGVDGSFV--ESHDEHCGNGTRICLSIGGSNRYV---P-L--PTRSKNKKEKPKMGT 352  
2 LGPGVDGWAVSLKAMMSIVVGMGLAICFLYWWVNRYV---P-L--PTRSKKKVKPQMGT 350  
3 I-VAEHLKFV--PLFVIMITSSFLIILTYRWMKNVLTDPRLYDPALVKEKKTAKLSF 267

370 380 390 400 410 420  
1 MESLKFLVSSPYIRDLATLVVAYGISINLVEVTWKSCLKAQFPPSPNEYSAFMGAFSTCTG 412  
2 MESLKFLVSSPYIRDLATLVVAYGISINLVEVTWKSCLKSQFPPSPNEYSAFMGDFSTCTG 410  
3 IESLKMIFTSKYVGYIALLIAYGVSVINLVEGVWKSCLKVKELYPTKEAYTIYMGQFQFYQG 327

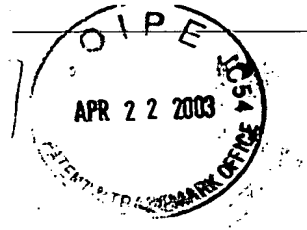
430 440 450 460 470 480  
1 VATFTMMLLSQYVFNKYGWGVAAKITPTVLLLTGVAFSSLILFGGPFA-PLVAKLGMTPL 471  
2 LATFTMMLLSQYVFNKYGWGVAAKITPTVLLLTGVAFSSLILFGGPFA-PLVAKLGMTPL 469  
3 WVAIAFMLIGSNILRKVSWLTAAMITPLMMFITGAFFSFIFFDSVIAMNLTGILASSPL 387

490 500 510 520 530 540  
1 LAAVYVGALQNIFFSK-SAKYSLFDPCKEMAYIPLDEDTKVKGKAAIDVVCNPLGKSGGAL 530  
2 LAAVYVVPPEVSSARVQVQHSSTPSAMQECYPLDEVSKVKAKLQL-MWSATIGKSGGAL 528  
3 TLAVMIGMIQNVLSK-GVKYSLFDATKNMAYIPLDKDLRVKGQA-AVEVIGGRLGKSGGAI 446

550 560 570 580 590 600  
1 IQQ-FMIL--SFGSLANSTPYLGMILLVIVTAWLAAAKSLEGQFNSLRLKSLRRKWREL 587  
2 IQQ-FMIL--TFGSLANSTPYLGIVLLGVITAWLAAAKSLEGPV----- 569  
3 IQSTFFILFPVFGFI-EATPYFASIFFIIVILWIFAVKGLNKEYQVL-VNKNEK----- 498

- 1 HR 589
- 2 -- 569
- 3 -- 498

Fig. 3



4/8

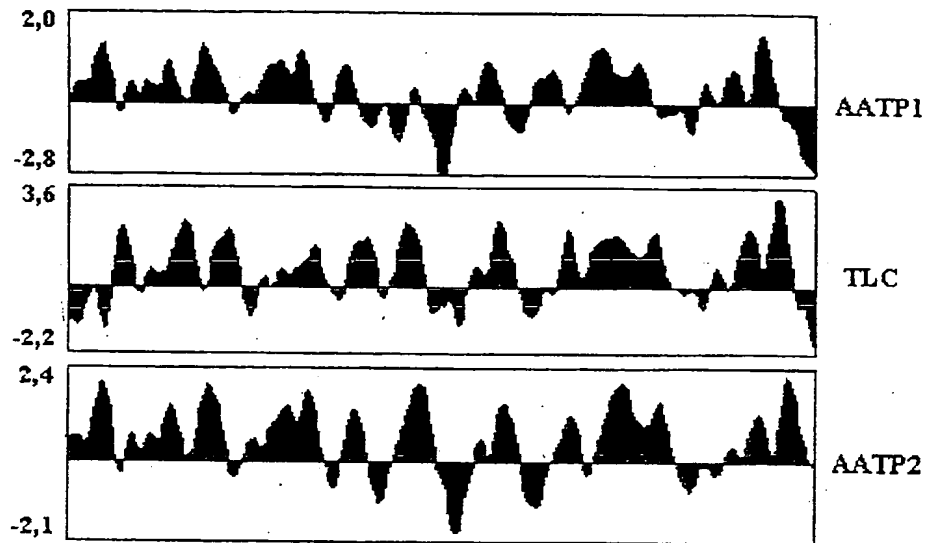
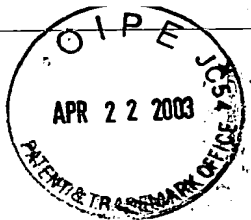


Fig. 4



5/8

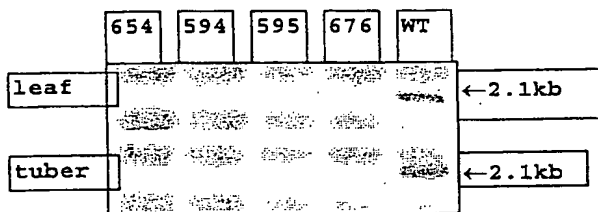


Fig. 5

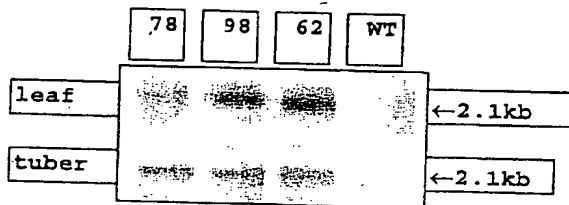


Fig. 6

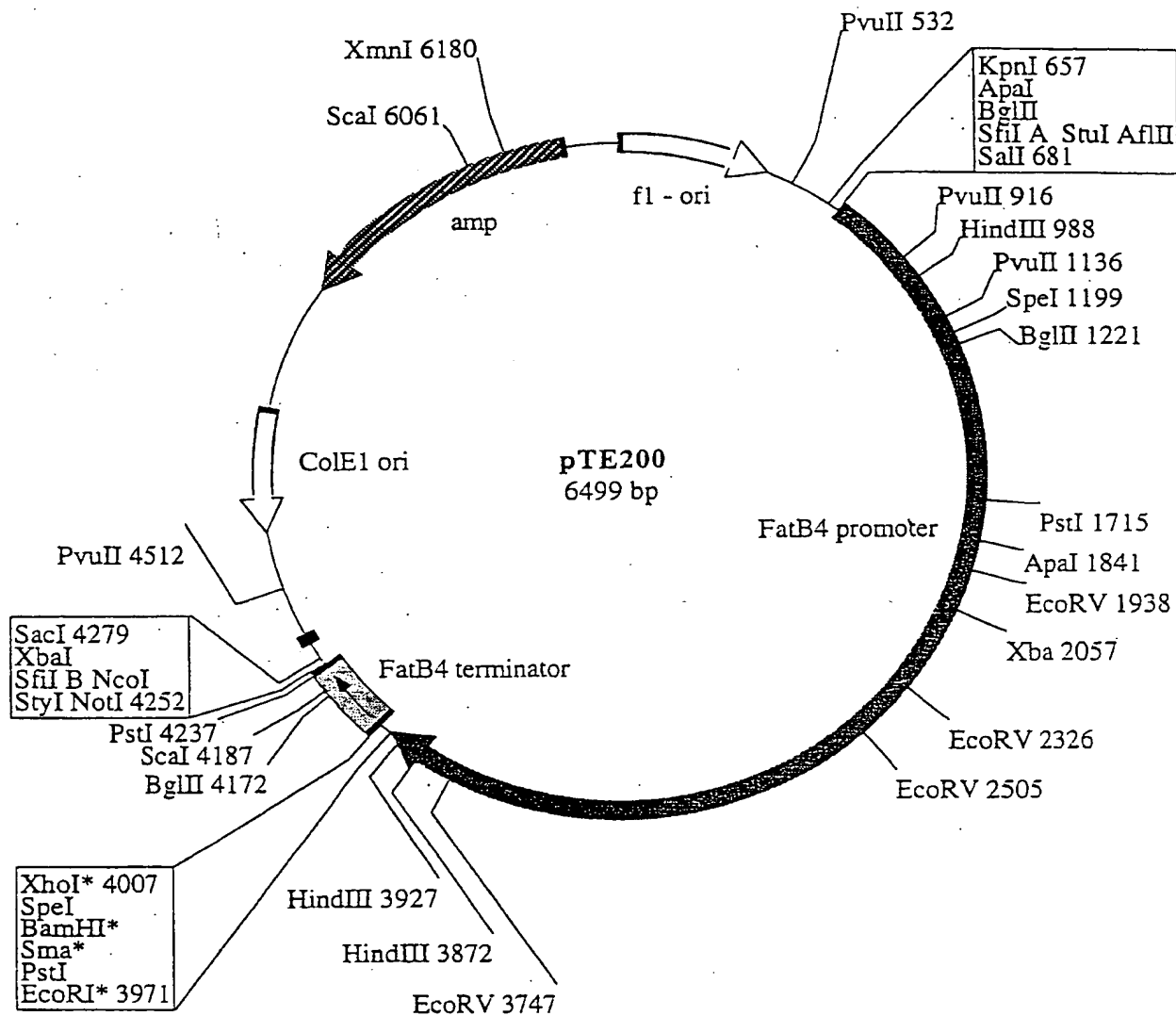


Fig. 7

RECEIVED  
 2003-09-16  
 10:00 AM

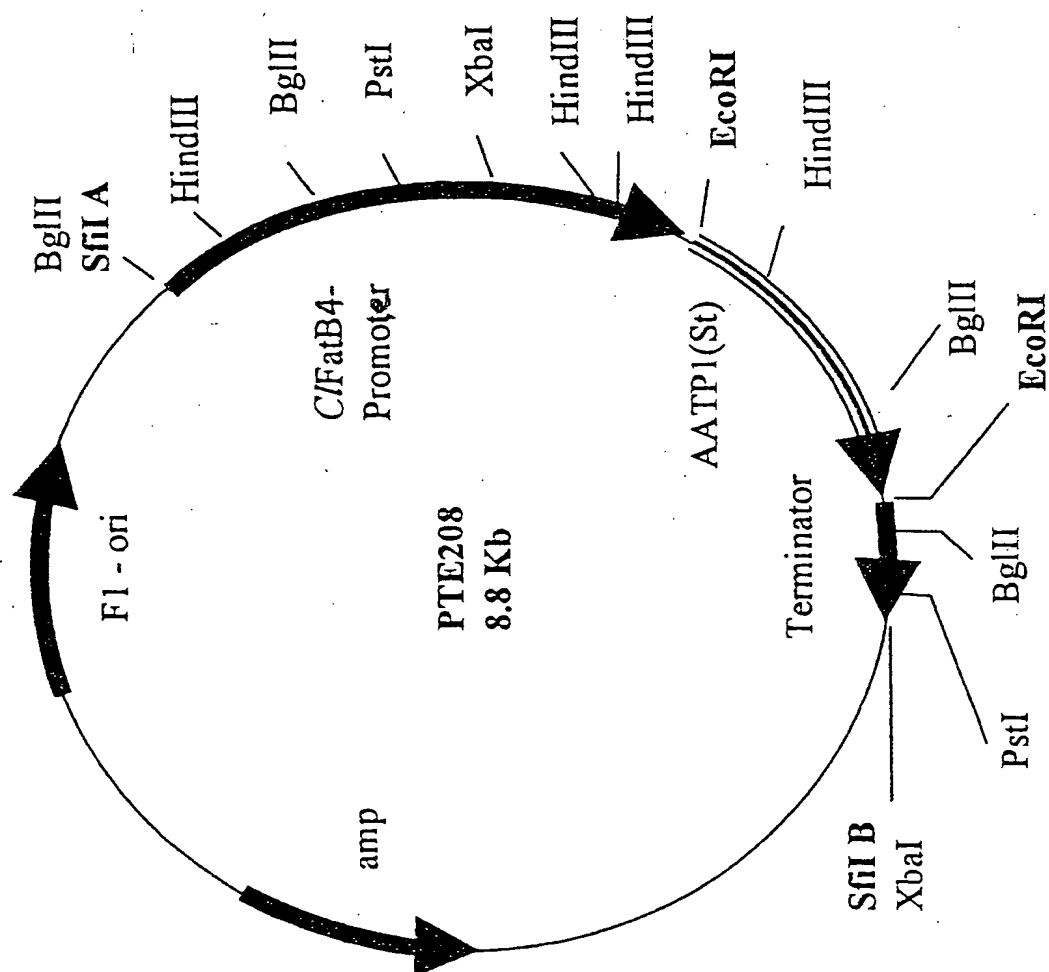


Fig. 8

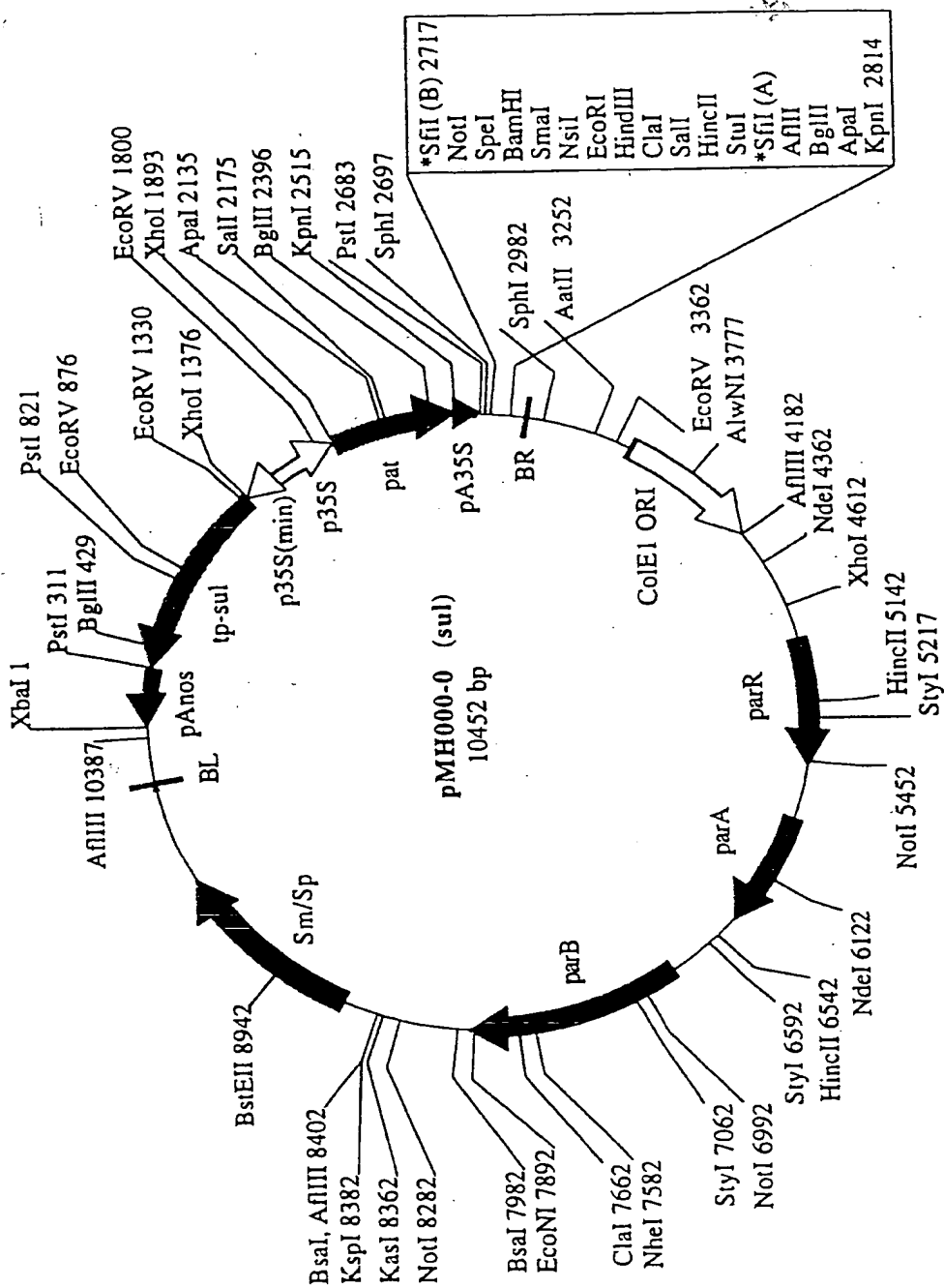


Fig. 9